

5

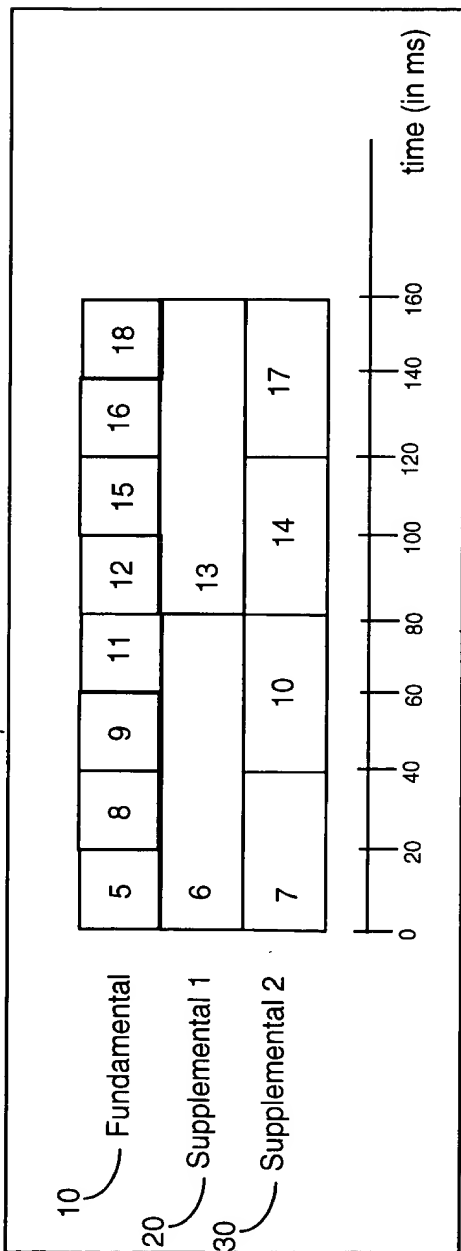


FIG. 1A

45

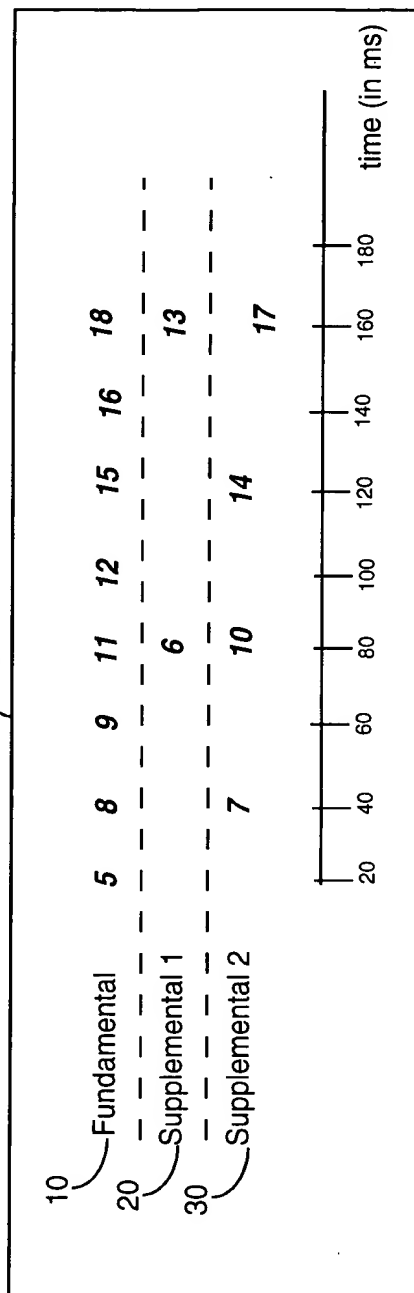


FIG. 1B

FIG. 2 is a block diagram of a communication system 250, in accordance with an embodiment of the present invention. The communication system 250 includes a Base Station 210 and a Mobile Station 230. The Base Station 210 includes a Byte Stream Layer 212, an RLP3E Layer 214, a Multiplex Sublayer 216, and a Physical Layer 218. The Mobile Station 230 includes a Byte Stream Layer 232, an RLP3E Layer 234, a Multiplex Sublayer 236, and a Physical Layer 238. The Base Station 210 and the Mobile Station 230 are connected via a communication link 220. The communication link 220 connects the Physical Layer 218 of the Base Station 210 to the Physical Layer 238 of the Mobile Station 230. Within each station, the layers are interconnected by bidirectional arrows, indicating bidirectional communication between adjacent layers.

250

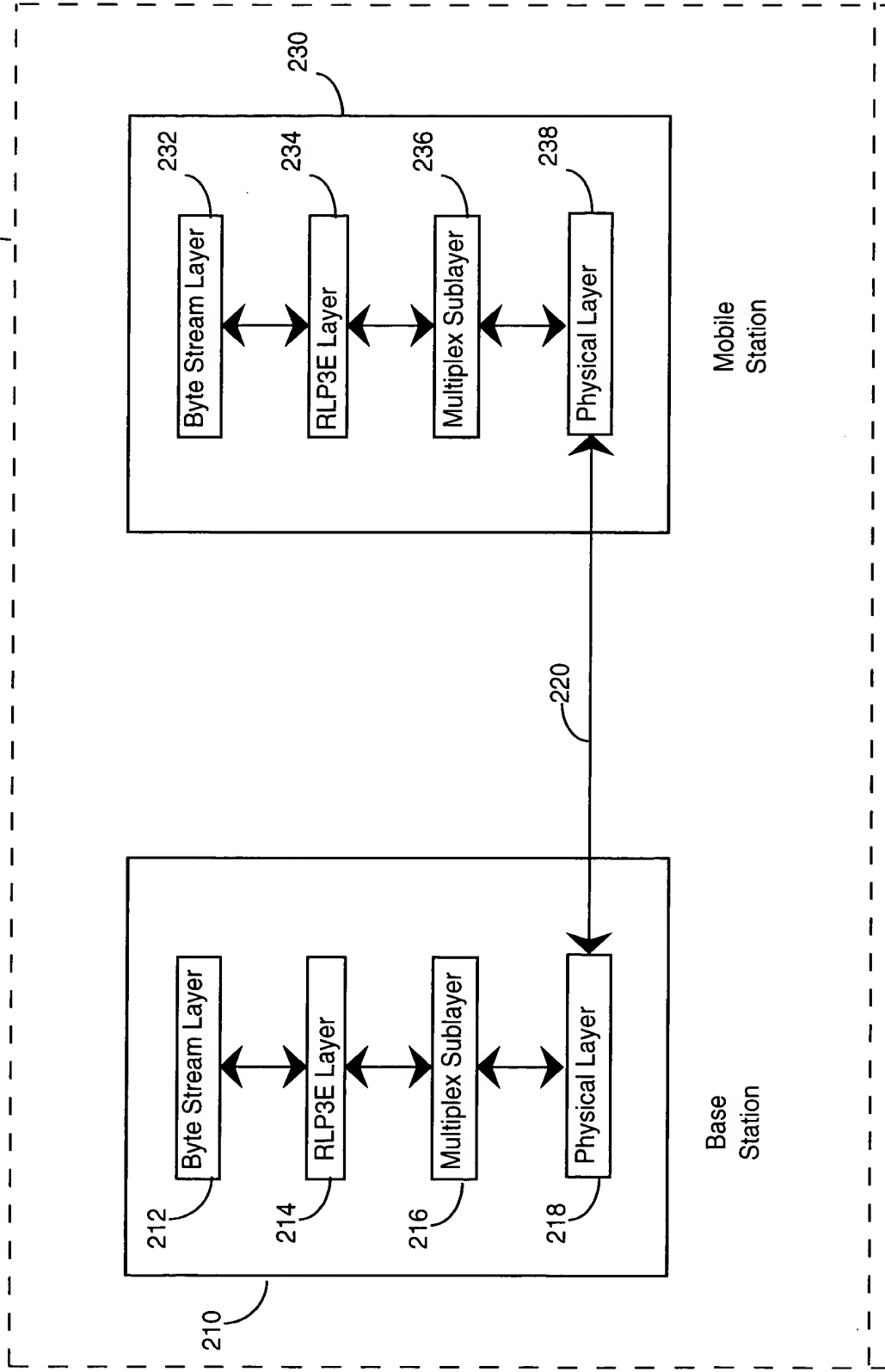


FIG. 2

FIG. 3

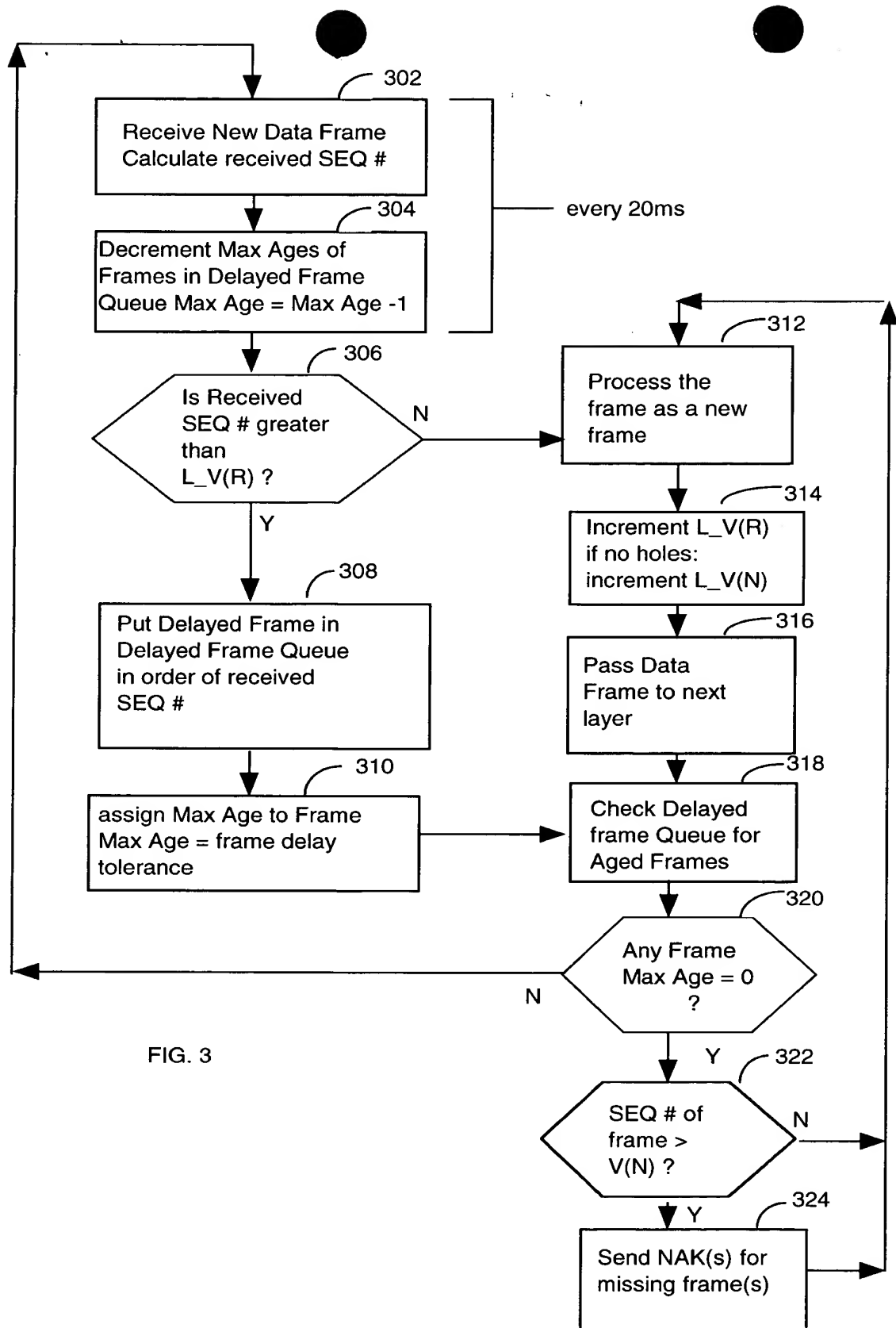
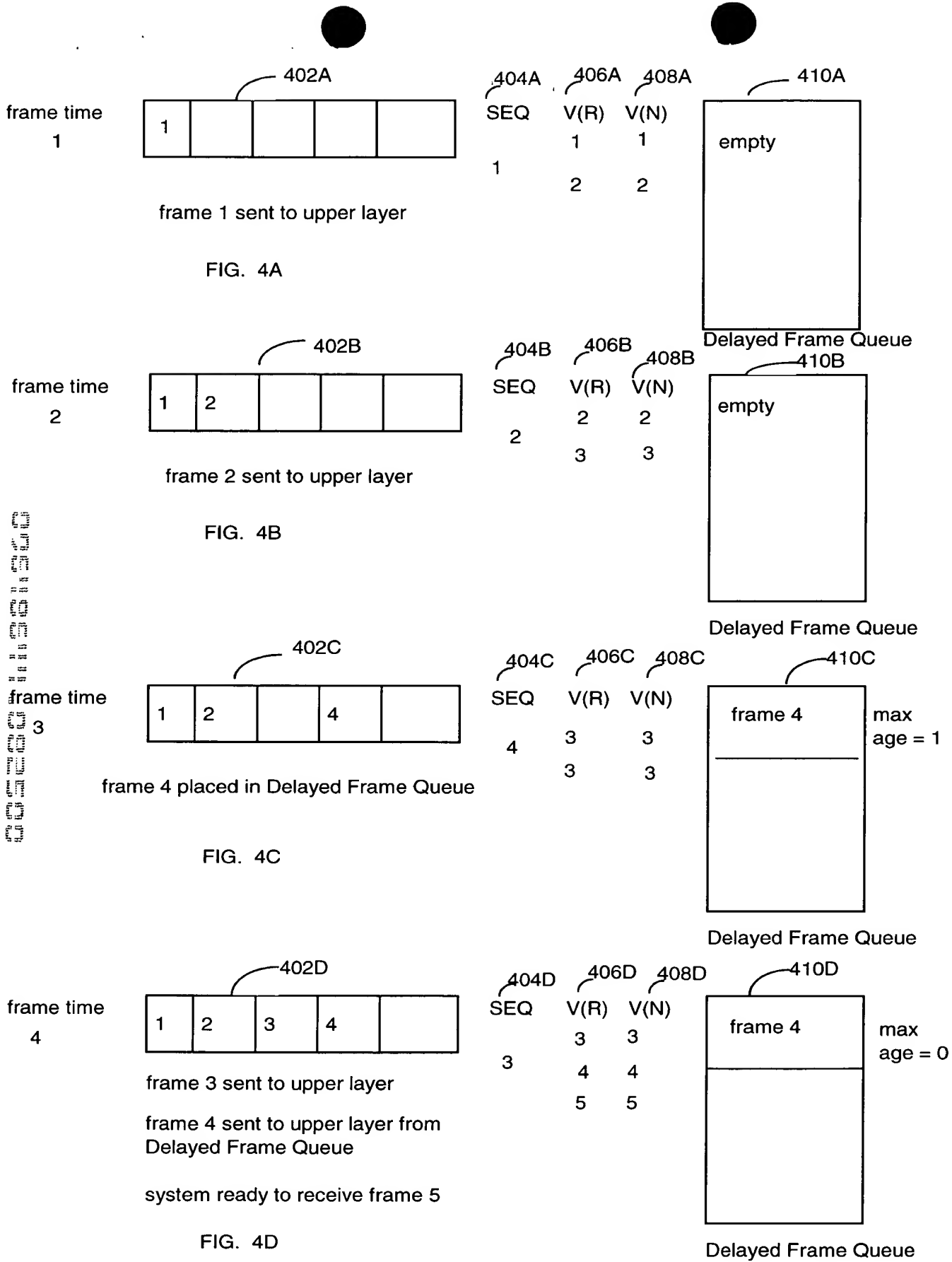


FIG. 3



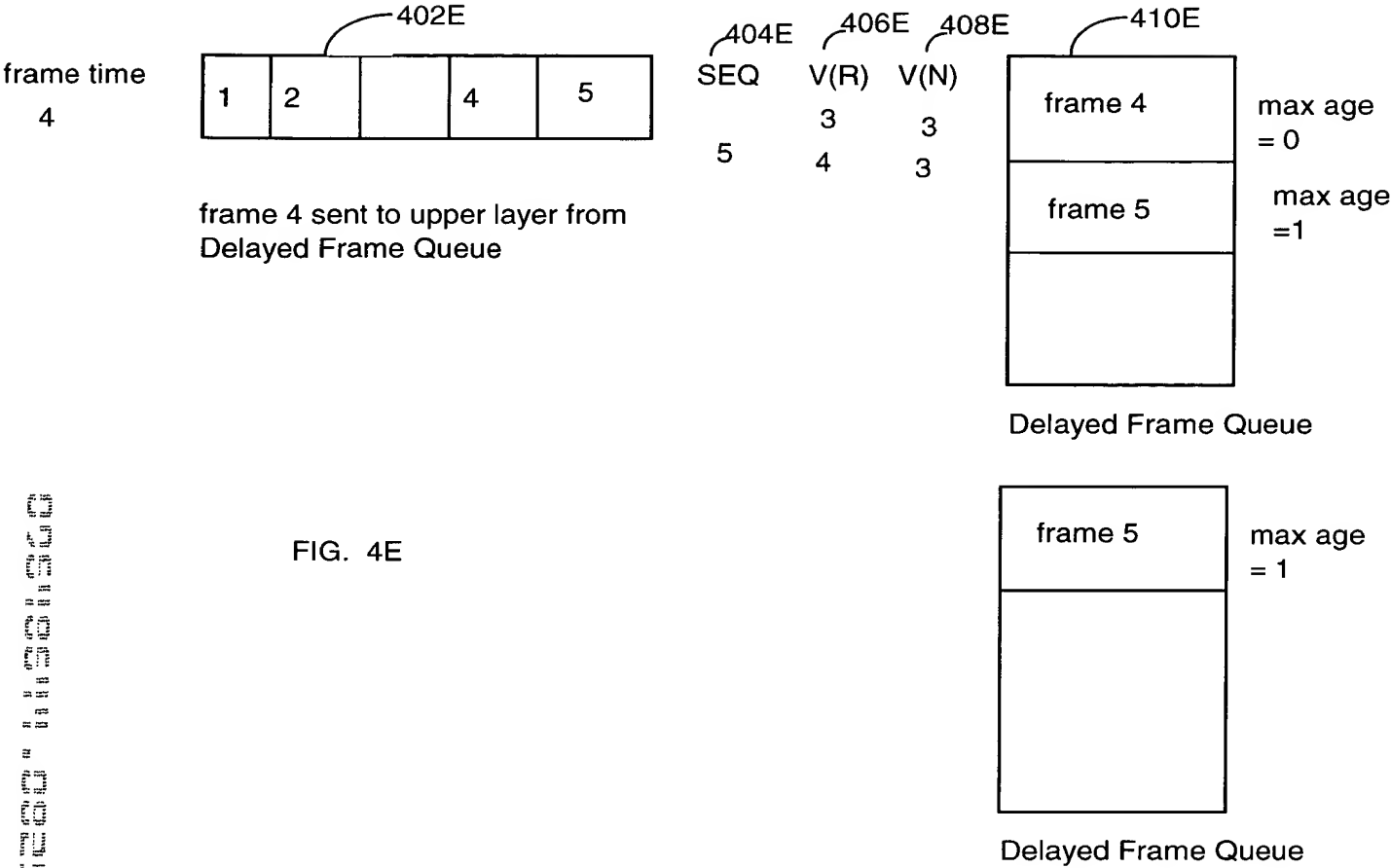


FIG. 4E

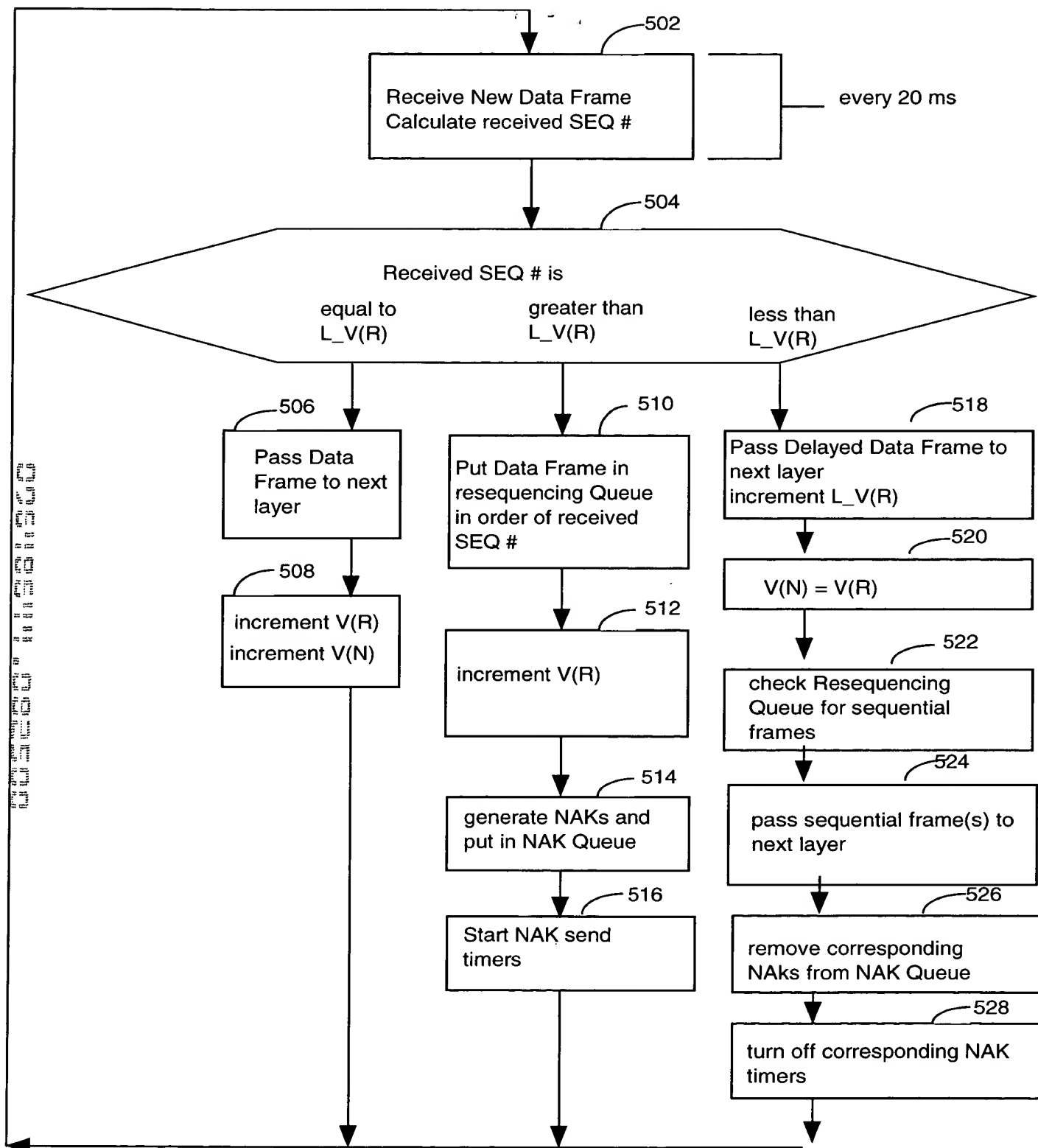
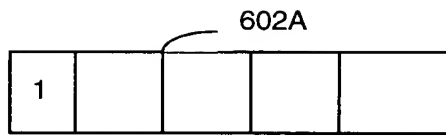
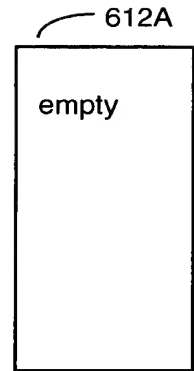
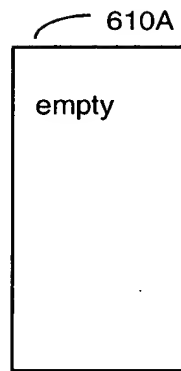


FIG. 5

frame time
1



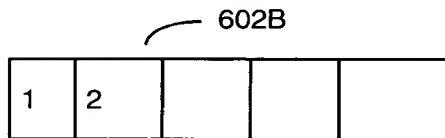
604A 606A 608A
SEQ V(R) V(N)
1 1 1
2 2



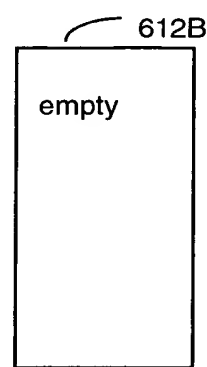
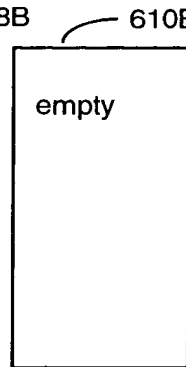
frame 1 sent to upper layer

FIG. 6A

frame time
2



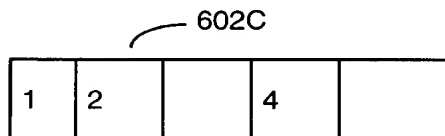
604B 606B 608B
SEQ V(R) V(N)
2 2 2
3 3



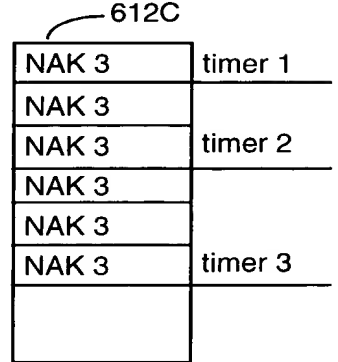
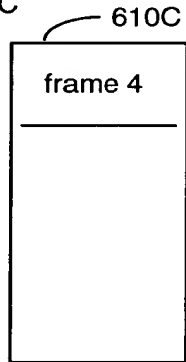
frame 2 sent to upper layer

FIG. 6B

frame time
3



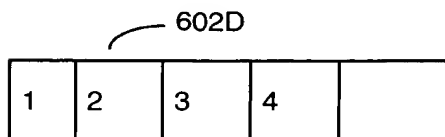
604C 606C 608C
SEQ V(R) V(N)
4 3 3
4 3



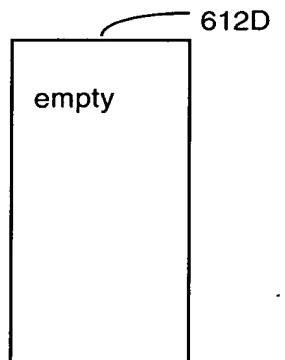
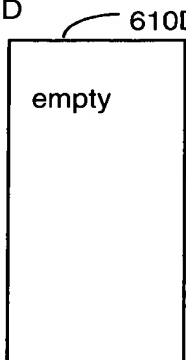
frame 4 placed in Resequencing Queue
NAKs placed in NAK Queue
NAK send timers started

FIG. 6C

frame time
4



604D 606D 608D
SEQ V(R) V(N)
3 4 3
5 5



frame 3 sent to upper layer
frame 4 sent to upper layer from
Resequencing Queue
NAK 3 purged from NAK Queue
NAK 3 send timers canceled

FIG. 6D

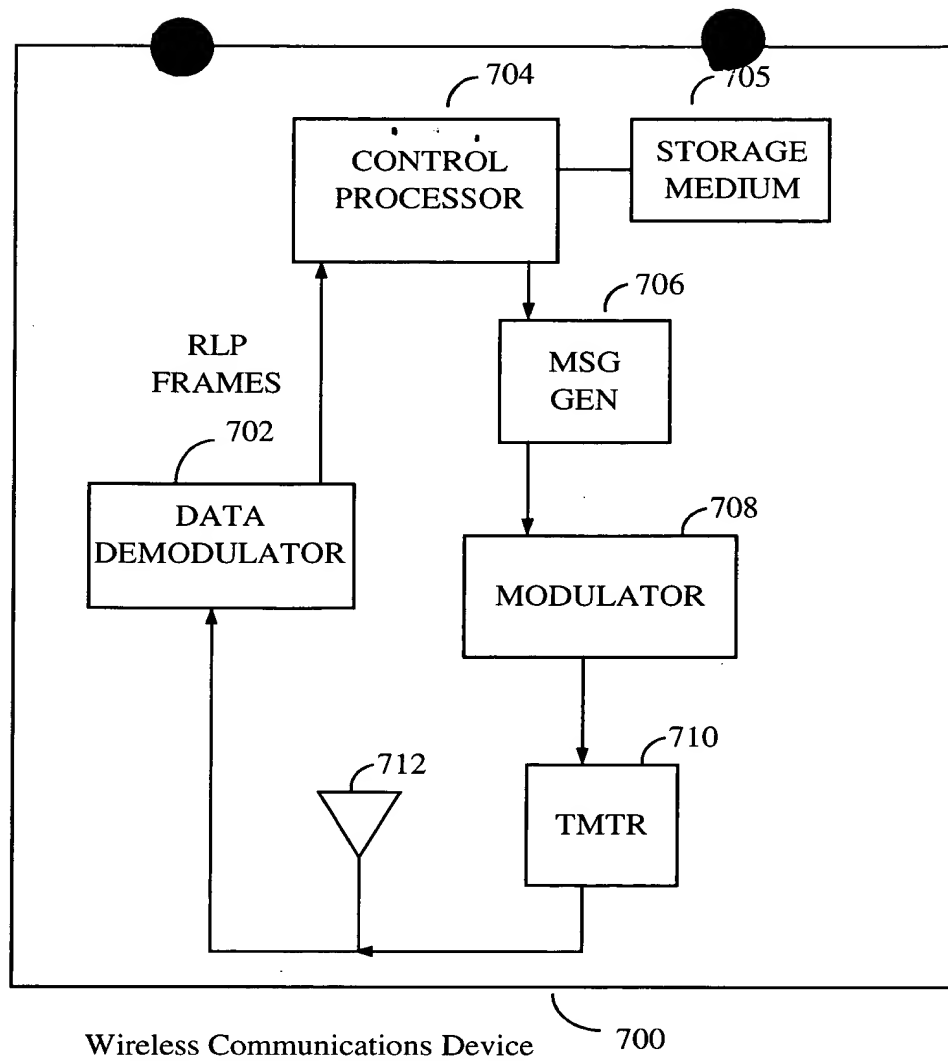


FIG. 7